



SERVICE BULLETIN

EQUIPMENT SERIES: 75S

BULLETIN NO. 1

DATE: 1-11-62

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EQUIPMENT TYPE: RECEIVER 75S-3

SUBJECT: TO ELIMINATE BFO PARASITIC OSCILLATIONS

The modification in this service bulletin is to eliminate BFO parasitic oscillations that might be present in some receivers. With the tunable BFO turned on, the signal in receivers having these oscillations will be nearly overridden by background noise, and will have a warbling quality. The procedure below has a more thorough check for detecting these oscillations.

The modification is recommended only if it has been determined that these oscillations are present.

MODIFICATION PROCEDURE:

1. With power applied to unit, set EMISSION switch to USB position. Do not apply signal.
2. Turn on BFO.
3. If by turning BFO knob, the pitch of the background noise is not tunable, and if the noise is louder than normal with the BFO on, the parasitic oscillations are present.
4. Disconnect power from unit and remove wrap-around cover.
5. From BFO tube socket XV11, remove mounting nut that is nearest power transformer on bottom of chassis. Leave lock washer on screw.
6. Install 1/2-inch long standoff terminal (306-0977-00) to screw of tube socket from which nut was removed.
7. Disconnect from terminal 4 of coil assembly L10, the 180-uuf capacitor C142 that also is connected to pin 6 of XV11, and reconnect to new standoff terminal. (Terminal 2 of L10 has raised dot near it. Counting clockwise from this terminal are terminals 3, 4 and 1 in that order.)
8. Install 47-ohm resistor R87 (745-1296-00) from new standoff terminal to terminal 4 of L10.
9. Replace dust cover to unit.

PARTS REQUIRED:

<u>Qty</u>	<u>Description</u>	<u>Collins Part Number</u>	<u>Price</u>
1	Resistor, 47 ohm $\pm 10\%$ 1/2 watt, R87 fixed composition	745-1296-00	\$0.17
1	Standoff, terminal single ended with metal tip	306-0977-00	0.28

The above parts may be obtained from Collins Radio Company, Service Parts Department, Cedar Rapids, Iowa, at no charge for 90 days after the date of this bulletin, after which the listed prices will apply. In ordering these parts from Collins Radio Company, specify the Collins part numbers and make reference to 75S Service Bulletin No. 1. These parts also should be available from local radio supply houses.